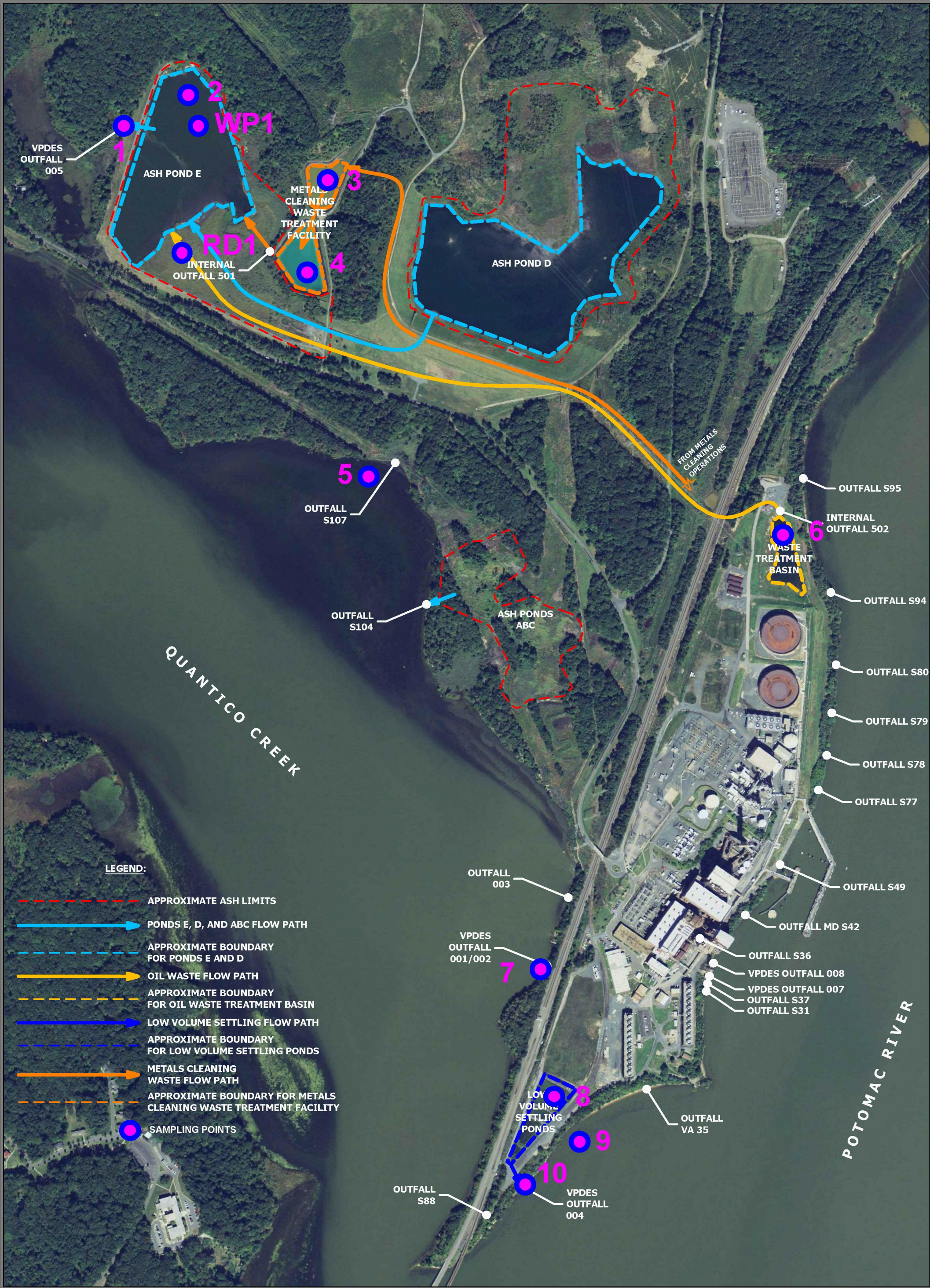


GAI CAD FILE PATH: Z:\Energy\2015\C150132.00 - DOM - Possum Point PS CCB\Working Docs\Task 1.3\C150132.00 - VPDES - EXISTING.dwg




DRAWING TITLE			DRAWN BY:	CHECKED BY:	APPROVED BY:
WATER SAMPLING PLAN - SAMPLING POINTS			DEBARJD	MONNEJD	QUINLSC
PROJECT		CLIENT	DWG TYPE:	SCALE:	ISSUE DATE:
POSSUM POINT POWER STATION 19000 POSSUM POINT ROAD DUMFRIES, PRINCE WILLIAM COUNTY VIRGINIA 22026		DOMINION RESOURCES SERVICE, INC.  5000 DOMINION BOULEVARD GLEN ALLEN, VIRGINIA 23060		1" = 600'	04/02/2015
			SHEET NO.:	1 OF 1	
			GAI FILE NUMBER:		
			C150132.00 - VPDES - EXISTING		
			GAI DRAWING NUMBER:		
This drawing was produced with computer aided drafting technology and is supported by electronic drawing files. Do not revise this drawing via manual drafting methods.		12x18 Existing			
ISSUING OFFICE: Pittsburgh   385 E. Waterfront Drive, Homestead, PA 15120		© 2015 GAI Consultants, Inc.			
PLOTTED ON: 4/6/2015 3:35:02 PM PLOTTED BY: Rich Lenhart, Jr. PLOT FILE: GAI.stb					



Table 1. Possum Point Water Sampling Matrix											
Sample Locations	Sample Location Map Identifier	Inorganics	Nitrogen	pH	Oil and Grease	Hardness	TSS	Chronic Toxicity	Total Residual Chlorine	Full Set Parameters (see attachment)	Frequency
Pond E Well Points (Take samples at main header)	WP1	x	x	x	x	x	x			1X during middle of the testing	Sampling done at beginning, middle and end of GAI sampling efforts
Pond E rim ditch	RD1	x	x	x	x	x	x			1X during middle of the testing	Sampling done at beginning, middle and end of GAI sampling efforts
Pond D rim ditch	Not in this Phase <sup>1</sup>	x	x	x	x	x	x			1X during middle of the testing	Sampling done at beginning, middle and end of GAI sampling efforts
Pond D dewater well	Not in this Phase <sup>1</sup>	x	x	x	x	x	x			1X during middle of the testing	Sampling done at beginning, middle and end of GAI sampling efforts
Ponds ABC dewater well	Not in this Phase <sup>1</sup>	x	x	x	x	x	x				1 each
Pond E surface water	2	x	x	x	x	x	x				1 each
Low Volume Settling Ponds (Sample in middle pond)	8	x	x	x	x	x	x				1
Metals Cleaning Waste Treatment Facility (In North Pond)	3	x		x	x	x	x				1
Metals Cleaning Waste Treatment Facility (In South Pond)	4	x		x	x	x	x				1
Oil Waste Treatment Basin effluent	6	x		x	x	x	x				1
Quantico Creek	5 (in creek)	x	x	x	x	x	x				1
Potomac River	9 (in river)	x	x	x	x	x	x				1
Outfall 001	7	x	x	x	x	x	x				1
Outfall 004	10	x	x	x	x	x	x		x		1
Outfall 005	1	x	x	x	x	x	x				1
Blended Dewatering water with Outfall 001: ratio 0.864MGD (600 GPM) : 20 MGD (4.32%)	Special							x			

Note: 1 Water from Future Pond D and ABC well points and rim ditches will be collected over the dewatering of the ponds in order to verify the discharge treatment and / or management system selected for Pond E. This will confirm that the system is appropriate for handling discharges from Ponds D and ABC.

Table 2. Possum Point Water Sampling Typical Parameters		
Sample Type	Test Parameters	Sample Method
Inorganics	Antimony Arsenic Barium Cadmium Chloride Chromium Copper Hexavalent Chromium Iron Lead Manganese Mercury Nickel Selenium Thallium Zinc	Grab
Nitrogen	Ammonia, as N Nitrates	Grab
pH	pH	Grab
Oils & Grease	Oils & Grease	Grab
TSS	TSS	Grab
Chronic Toxicity	Ceriodaphnia dubia	Grab
Chronic Toxicity	Pimephales promelas	Grab
TRC	Total Residual Chlorine	Grab

Note: Sample metals for dissolved and total recoverable metals.

**Table 3. Possum Point Water Sampling Full Parameters**

<b>Parameter</b>	<b>Sample Method</b>
Alkalinity	Grab
Aluminum	Grab
Ammonia	Grab
Antimony	Grab
Arsenic	Grab
Boron	Grab
Barium*	Grab
Beryllium	Grab
Cadmium	Grab
Calcium	Grab
Chloride (mg/L)	Grab
Chromium	Grab
Hexavalent Chromium	Grab
Cobalt	Grab
Copper	Grab
Fluoride	Grab
Iron*	Grab
Lead	Grab
Lithium	Grab
Manganese*	Grab
Magnesium	Grab
Molybdenum	Grab
Mercury	Grab
Nickel	Grab
Nitrate*	Grab
Nitrite	Grab
Oil & Grease	Grab
Potassium	Grab
Radium 226 & 228*	Grab
Selenium	Grab
Sodium	Grab
Sulfate*	Grab
Thallium	Grab
Zinc	Grab
Hardness	Grab
TDS	Grab
BOD	Grab
TSS	Grab
pH	Grab
Turbidity	Grab
Specific Conductance	Grab
Temperature	Grab
Flow (MGD)	Grab
Total Residual Chlorine	Grab
Total Nitrogen	Grab
Kjedahl Nitrogen (TKN)	Grab
Total Phosphorus	Grab
Chronic Toxicity - Ceriodaphnia dubia	Grab
Chronic Toxicity - Pimephales promelas	Grab

Note: Sample metals for dissolved and total recoverable metals.